

QuantiNova® LNA® Probe PCR Focus Panels (Rotor-Gene® Format)

Rat Focal Adhesions

Cat. no. 249955 UPRN-145ZR

For study focus gene expression analysis

Shipping and storage

QuantiNova LNA Probe PCR Focus Panels are shipped at room temperature. Immediately upon receipt, they should be stored protected from light at 2–8°C for short term storage or at –30°C to –15°C for long time storage. Under these conditions, all components are stable for at least 12 months.

Note: Open the package and store the products appropriately immediately upon receipt.

For optimal performance, QuantiNova LNA Probe PCR Focus Panels should be used together with the QuantiNova Reverse Transcription Kit for cDNA synthesis and the QuantiNova Probe PCR Kit (Mastermix) for PCR.

Panel layout (Rotor-Gene): QuantiNova LNA Probe PCR Focus Panel

The 96 real-time assays in the Rotor-Gene format are located in wells 1–96 of the Rotor-Disc® (plate A1–A12=Rotor-Disc 1–12, plate B1–B12=Rotor-Disc 13–24, etc.). To maintain data analysis compatibility, wells 97–100 do not contain real-time assays but will contain master mix to account for weight balance. Refer to the QuantiNova LNA Probe PCR Handbook at www.qiagen.com for further details.

	1	2	3	4	5	6	7	8	9	10	11	12
A	Actn1	Actn3	Actn4	Akt1	Akt2	Akt3	Arhgap5	Bcar1	Braf	Capn2	Cav1	Cav2
B	Cav3	Cdc42	Crk	AABR0703475 0.1	Cttnb1	Diaph1	Dst	Flna	Flnb	Fyn	Grb2	Gsk3b
C	Hras	Ilk	Itga1	Itga10	Itga11	Itga2	Itga2b	Itga3	Itga4	Itga5	Itga6	Itga7
D	Itga8	Itgal	Itgad	Itgav	Itgax	Itgb1	Itgb2	Itgb3	Itgb4	Itgb5	Itgb6	Pak1
E	LOC1009107 32	Pak3	Pak4	Parva	Pdpk1	Pip5k1c	Plec	Prkca	Prkcb	Prkcg	Pten	Ptk2
F	Pxn	Rac1	Rac2	Raf1	Rap1a	Rap1b	Rapgef1	Rasgrf1	Rhoa	Rock1	Rock2	Shc1
G	Shc2	Sos1	Sos2	Src	Tns2	Tln1	Tns4	Vasp	Vav1	Vav2	Vcl	Zyx
H	Actb	B2m	Hprt1	Ldha	Rplp1	RGDC	QIC	QIC	QIC	PPC	PPC	PPC

Gene table: QuantiNova LNA Probe PCR Focus Panel

Position	Assay	Name	Symbol	Ensembl ID	Description
A01	UPFR1055702	ENSRNOT00000088795.1	Actn1	ENSRNOG0000056756	actinin, alpha 1 Source RGD Symbol Acc 70907
A02	UPFR1098063	ENSRNOT00000026812.5	Actn3	ENSRNOG0000019745	actinin alpha 3 Source RGD Symbol Acc 621792
A03	UPFR1049536	ENSRNOT00000090402.1	Actn4	ENSRNOG0000020433	actinin alpha 4 Source RGD Symbol Acc 61816
A04	UPFR1083196	ENSRNOT00000031164.3	Akt1	ENSRNOG0000028629	AKT serine/threonine kinase 1 Source RGD Symbol Acc 2081
A05	UPFR1088137	ENSRNOT00000025303.3	Akt2	ENSRNOG0000018677	AKT serine/threonine kinase 2 Source RGD Symbol Acc 2082
A06	UPFR1105050	ENSRNOT00000085648.1	Akt3	ENSRNOG0000021497	AKT serine/threonine kinase 3 Source RGD Symbol Acc 62390
A07	UPFR1077473	ENSRNOT00000088378.1	Arhgap5	ENSRNOG0000004696	Rho GTPase activating protein 5 Source RGD Symbol Acc 1308507
A08	UPFR1037655	ENSRNOT00000058891.4	Bcar1	ENSRNOG0000019253	BCAR1, Cas family scaffold protein Source RGD Symbol Acc 2406
A09	UPFR1075695	ENSRNOT00000014604.7	Braf	ENSRNOG0000010957	B-Raf proto-oncogene, serine/threonine kinase Source RGD Symbol Acc 619908
A10	UPFR1035285	ENSRNOT00000045326.3	Capn2	ENSRNOG0000034015	calpain 2 Source RGD Symbol Acc 2268
A11	UPFR1012931	ENSRNOT00000078250.1	Cav1	ENSRNOG0000056836	caveolin 1 Source RGD Symbol Acc 2280
A12	UPFR1045353	ENSRNOT00000080271.1	Cav2	ENSRNOG0000057713	caveolin 2 Source RGD Symbol Acc 620348
B01	UPFR1043780	ENSRNOT00000007601.4	Cav3	ENSRNOG0000055798	caveolin 3 Source RGD Symbol Acc 2281
B02	UPFR1103160	ENSRNOT00000018118.5	Cdc42	ENSRNOG0000013536	cell division cycle 42 Source RGD Symbol Acc 71043
B03	UPFR1113088	ENSRNOT00000006407.4	Crk	ENSRNOG0000025792	CRK proto-oncogene, adaptor protein Source RGD Symbol Acc 2405
B04	UPFR1082438	ENSRNOT00000090971.1	AABR07034750.1	ENSRNOG0000060228	
B05	UPFR1057605	ENSRNOT00000079085.1	Ctnnb1	ENSRNOG0000054172	catenin beta 1 Source RGD Symbol Acc 70487
B06	UPFR1052415	ENSRNOT00000060432.5	Diaph1	ENSRNOG0000019688	diaphanous-related formin 1 Source RGD Symbol Acc 1310707
B07	UPFR1063771	ENSRNOT00000044452.6	Dst	ENSRNOG0000012207	dystonin Source RGD Symbol Acc 1306566
B08	UPFR1022072	ENSRNOT00000079889.1	Flna	ENSRNOG0000054890	filamin A Source RGD Symbol Acc 1560614
B09	UPFR1042553	ENSRNOT00000066546.1	Flnb	ENSRNOG0000009470	filamin B Source RGD Symbol Acc 1311915
B10	UPFR1087186	ENSRNOT00000085987.1	Fyn	ENSRNOG0000000596	FYN proto-oncogene, Src family tyrosine kinase Source RGD Symbol Acc 2641
B11	UPFR1087543	ENSRNOT00000005347.5	Grb2	ENSRNOG0000003990	growth factor receptor bound protein 2 Source RGD Symbol Acc 619758
B12	UPFR1109626	ENSRNOT00000077612.1	Gsk3b	ENSRNOG0000002833	glycogen synthase kinase 3 beta Source RGD Symbol Acc 70982
C01	UPFR1076419	ENSRNOT00000022363.6	Hras	ENSRNOG0000016611	HRas proto-oncogene, GTPase Source RGD Symbol Acc 2827
C02	UPFR1118308	ENSRNOT00000025906.4	Ilk	ENSRNOG0000018993	integrin-linked kinase Source RGD Symbol Acc 620063
C03	UPFR1017832	ENSRNOT00000086114.1	Itga1	ENSRNOG0000053550	integrin subunit alpha 1 Source RGD Symbol Acc 2923
C04	UPFR1093370	ENSRNOT00000028812.5	Itga10	ENSRNOG0000021217	integrin subunit alpha 10 Source RGD Symbol Acc 1305152
C05	UPFR1020181	ENSRNOT00000008971.7	Itga11	ENSRNOG0000006723	integrin subunit alpha 11 Source RGD Symbol Acc 1311711
C06	UPFR1068108	ENSRNOT00000077401.1	Itga2	ENSRNOG0000058111	integrin subunit alpha 2 Source RGD Symbol Acc 621632
C07	UPFR1055982	ENSRNOT00000036112.4	Itga2b	ENSRNOG0000022071	integrin subunit alpha 2b Source RGD Symbol Acc 1596428
C08	UPFR1093170	ENSRNOT00000005644.6	Itga3	ENSRNOG0000004276	integrin subunit alpha 3 Source RGD Symbol Acc 1310333
C09	UPFR1097667	ENSRNOT00000006880.6	Itga4	ENSRNOG0000004861	integrin subunit alpha 4 Source RGD Symbol Acc 1593249
C10	UPFR1023329	ENSRNOT00000087748.1	Itga5	ENSRNOG0000057451	integrin subunit alpha 5 Source RGD Symbol Acc 2925
		ENSRNOT000000		ENSRNOG00	

Position	Assay	Name	Symbol	Ensembl ID	Description
C11	UPFR1020634	002075.4	Itga6	000001518	integrin subunit alpha 6 Source RGD Symbol Acc 621633
C12	UPFR1020625	ENSRNOT00000030453.6	Itga7	ENSRNOG0000007905	integrin subunit alpha 7 Source RGD Symbol Acc 71022
D01	UPFR1041744	ENSRNOT00000022711.4	Itga8	ENSRNOG0000016538	integrin subunit alpha 8 Source RGD Symbol Acc 621634
D02	UPFR1057182	ENSRNOT00000024404.6	Itgal	ENSRNOG0000017980	integrin subunit alpha L Source RGD Symbol Acc 631424
D03	UPFR1089159	ENSRNOT00000026748.4	Itgad	ENSRNOG0000019728	integrin subunit alpha M Source RGD Symbol Acc 2926
D04	UPFR1097241	ENSRNOT00000006961.7	Itgav	ENSRNOG0000004912	integrin subunit alpha V Source RGD Symbol Acc 1310613
D05	UPFR1013587	ENSRNOT00000054983.4	Itgax	ENSRNOG0000036703	integrin subunit alpha X Source RGD Symbol Acc 1561123
D06	UPFR1091655	ENSRNOT00000014785.5	Itgb1	ENSRNOG0000010966	integrin subunit beta 1 Source RGD Symbol Acc 2927
D07	UPFR1033837	ENSRNOT00000001639.6	Itgb2	ENSRNOG0000001224	integrin subunit beta 2 Source RGD Symbol Acc 1305581
D08	UPFR1016531	ENSRNOT000000073350.2	Itgb3	ENSRNOG0000048449	integrin subunit beta 3 Source RGD Symbol Acc 628868
D09	UPFR1035313	ENSRNOT000000065339.2	Itgb4	ENSRNOG0000005580	integrin subunit beta 4 Source RGD Symbol Acc 2928
D10	UPFR1088952	ENSRNOT000000076955.2	Itgb5	ENSRNOG0000001795	integrin subunit beta 5 Source RGD Symbol Acc 628869
D11	UPFR1069796	ENSRNOT000000011030.4	Itgb6	ENSRNOG0000008346	integrin subunit beta 6 Source RGD Symbol Acc 1303119
D12	UPFR1066459	ENSRNOT000000091952.1	Pak1	ENSRNOG0000029784	p21 (RAC1) activated kinase 1 Source RGD Symbol Acc 3250
E01	UPFR1033705	ENSRNOT000000071060.2	LOC100910732	ENSRNOG0000048597	p21 (RAC1) activated kinase 2 Source RGD Symbol Acc 61953
E02	UPFR1120590	ENSRNOT000000089141.1	Pak3	ENSRNOG0000004676	p21 (RAC1) activated kinase 3 Source RGD Symbol Acc 3251
E03	UPFR1107964	ENSRNOT000000093347.1	Pak4	ENSRNOG0000019883	p21 (RAC1) activated kinase 4 Source RGD Symbol Acc 1307705
E04	UPFR1054397	ENSRNOT000000021671.5	Parva	ENSRNOG0000015713	parvin, alpha Source RGD Symbol Acc 71021
E05	UPFR1093188	ENSRNOT000000067660.1	Pdpk1	ENSRNOG0000006136	3-phosphoinositide dependent protein kinase-1 Source RGD Symbol Acc 620307
E06	UPFR1056466	ENSRNOT000000088364.1	Pip5k1c	ENSRNOG0000020577	phosphatidylinositol-4-phosphate 5-kinase type 1 gamma Source RGD Symbol Acc 1309938
E07	UPFR1038182	ENSRNOT000000040762.6	Plec	ENSRNOG0000023781	plectin Source RGD Symbol Acc 621649
E08	UPFR1034906	ENSRNOT000000004699.8	Prkca	ENSRNOG0000003491	protein kinase C, alpha Source RGD Symbol Acc 3395
E09	UPFR1083743	ENSRNOT000000016418.6	Prkcb	ENSRNOG0000012061	protein kinase C, beta Source RGD Symbol Acc 3396
E10	UPFR1032334	ENSRNOT000000080032.1	Prkcg	ENSRNOG0000054371	protein kinase C, gamma Source RGD Symbol Acc 3397
E11	UPFR1043890	ENSRNOT000000028143.3	Pten	ENSRNOG0000020723	phosphatase and tensin homolog Source RGD Symbol Acc 61995
E12	UPFR1115915	ENSRNOT000000011219.6	Plk2	ENSRNOG0000007916	protein tyrosine kinase 2 Source RGD Symbol Acc 3443
F01	UPFR1053103	ENSRNOT000000081134.1	Pxn	ENSRNOG0000001149	paxillin Source RGD Symbol Acc 1305759
F02	UPFR1019271	ENSRNOT000000001417.5	Rac1	ENSRNOG0000001068	Rac family small GTPase 1 Source RGD Symbol Acc 619755
F03	UPFR1037602	ENSRNOT000000009994.5	Rac2	ENSRNOG0000007350	Rac family small GTPase 2 Source RGD Symbol Acc 1307568
F04	UPFR1087799	ENSRNOT000000013831.6	Raf1	ENSRNOG0000010153	Raf-1 proto-oncogene, serine/threonine kinase Source RGD Symbol Acc 3531
F05	UPFR1051806	ENSRNOT000000047836.4	Rap1a	ENSRNOG0000032463	RAP1A, member of RAS oncogene family Source RGD Symbol Acc 1359694
F06	UPFR1076152	ENSRNOT000000009511.5	Rap1b	ENSRNOG0000007048	RAP1B, member of RAS oncogene family Source RGD Symbol Acc 620577
F07	UPFR1027676	ENSRNOT000000060977.5	Rapgef1	ENSRNOG0000014316	Rap guanine nucleotide exchange factor 1 Source RGD Symbol Acc 619793
F08	UPFR1020975	ENSRNOT000000018794.8	Rasgrf1	ENSRNOG0000014025	RAS protein-specific guanine nucleotide-releasing factor 1 Source RGD Symbol Acc 620395
F09	UPFR1119707	ENSRNOT000000071664.2	Rhoa	ENSRNOG0000050519	ras homolog family member A Source RGD Symbol Acc 619921
F10	UPFR1106310	ENSRNOT000000051362.5	Rock1	ENSRNOG0000031092	Rho-associated coiled-coil containing protein kinase 1 Source RGD Symbol Acc 620424

Position	Assay	Name	Symbol	Ensembl ID	Description
F11	UPFR1024462	ENSRNOT00000006403.7	Rock2	ENSRNOG0000004496	Rho-associated coiled-coil containing protein kinase 2 Source RGD Symbol Acc 3590
F12	UPFR1103707	ENSRNOT00000028038.6	Shc1	ENSRNOG0000020657	SHC adaptor protein 1 Source RGD Symbol Acc 620446
G01	UPFR1020994	ENSRNOT00000010714.5	Shc2	ENSRNOG0000008030	SHC adaptor protein 2 Source RGD Symbol Acc 1307137
G02	UPFR1051335	ENSRNOT00000009359.7	Sos1	ENSRNOG0000007106	SOS Ras/Rac guanine nucleotide exchange factor 1 Source RGD Symbol Acc 1310949
G03	UPFR1113990	ENSRNOT00000006425.5	Sos2	ENSRNOG0000004826	SOS Ras/Rho guanine nucleotide exchange factor 2 Source RGD Symbol Acc 620435
G04	UPFR1050158	ENSRNOT00000012739.4	Src	ENSRNOG0000009495	SRC proto-oncogene, non-receptor tyrosine kinase Source RGD Symbol Acc 620795
G05	UPFR1029139	ENSRNOT00000074212.1	Tns2	ENSRNOG0000010588	tensin 2 Source RGD Symbol Acc 1310917
G06	UPFR1015447	ENSRNOT00000022400.5	Tln1	ENSRNOG0000016630	talin 1 Source RGD Symbol Acc 1306247
G07	UPFR1045021	ENSRNOT00000089131.1	Tns4	ENSRNOG0000027350	tensin 4 Source RGD Symbol Acc 1310402
G08	UPFR1017791	ENSRNOT00000022214.7	Vasp	ENSRNOG0000016367	vasodilator-stimulated phosphoprotein Source RGD Symbol Acc 1311542
G09	UPFR1074622	ENSRNOT00000073294.2	Vav1	ENSRNOG0000050430	vav guanine nucleotide exchange factor 1 Source RGD Symbol Acc 3951
G10	UPFR1069553	ENSRNOT00000009893.6	Vav2	ENSRNOG0000007422	vav guanine nucleotide exchange factor 2 Source RGD Symbol Acc 1306285
G11	UPFR1109271	ENSRNOT00000015179.7	Vcl	ENSRNOG0000010765	vinculin Source RGD Symbol Acc 1311217
G12	UPFR1055727	ENSRNOT00000023537.5	Zyx	ENSRNOG0000017354	zyxin Source RGD Symbol Acc 620698
H01	UPFR1132952	ENSRNOT00000080216.1	Actb	ENSRNOG0000034254	actin, beta Source RGD Symbol Acc 628837
H02	UPFR1132953	ENSRNOT00000023017.5	B2m	ENSRNOG0000017123	beta-2 microglobulin Source RGD Symbol Acc 2189
H03	UPFR1132959	ENSRNOT00000065935.3	Hprt1	ENSRNOG0000048561	hypoxanthine phosphoribosyltransferase 1 Source RGD Symbol Acc 2826
H04	UPFR1018740	ENSRNOT00000017468.2	Ldha	ENSRNOG0000013009	lactate dehydrogenase A Source RGD Symbol Acc 2996
H05	UPFR1132958	ENSRNOT00000018820.5	Rplp1	ENSRNOG0000013874	ribosomal protein lateral stalk subunit P1 Source RGD Symbol Acc 621774
H06	UPFR1126610	UPL_RGDC	RGDC	UPL_RGDC	Rat Genomic DNA Contamination
H07	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H08	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H09	UPFH1126606	UPL_QIC	QIC	UPL_QIC	QuantiNova Internal Control
H10	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H11	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control
H12	UPFH1126605	UPL_PPC	PPC	UPL_PPC	Positive PCR Control

Related products

Product	Contents	Cat. no.
QuantiNova LNA Probe PCR QC Panel	These panels are designed to assess the quality of RNA samples before characterization using QuantiNova LNA Probe PCR Focus Panels; available in 96-well, 384-well, and Rotor-Disc 100 formats	249945
QuantiNova Reverse Transcription Kit (10)*	For 10 x 20 μ l reactions: 20 μ l 8x gDNA Removal Mix, 10 μ l Reverse Transcription Enzyme, 40 μ l Reverse Transcription Mix (containing RT primers), 20 μ l Internal Control RNA, 1.9 ml RNase-Free Water	205410
QuantiNova Probe RT-PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml QuantiNova Probe RT-PCR Master Mix, 20 μ l QuantiNova Probe RT Mix, 20 μ l Internal Control RNA, 500 μ l Yellow Template Dilution Buffer, 250 μ l ROX Reference Dye, 1.9 μ l RNase-Free Water	208352
QuantiNova Probe PCR Kit (100)*	For 100 x 20 μ l reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 μ l QuantiNova Yellow Template Dilution Buffer, 250 μ l QN ROX Reference Dye, 1.9 ml Water	208252

*Larger kit sizes available.

The QuantiNova LNA Probe PCR Focus Panels are intended for molecular biology applications. These products are not intended for the diagnosis, prevention or treatment of a disease.

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